

Rebif[®]
(interferon beta-1a)
subcutaneous injection

19

years of clinical trial
and patient experience
supports the safety profile

3

treatment
goals met

1-on-1

support
when you
need it

\$0

co-pay
for those eligible

There is strength in numbers



Diane L.

RN, MSCN, MS LifeLines Nurse

In the EVIDENCE* study, side effects were generally similar between Rebif and Avonex. Differences included:

- People taking Avonex had more flu-like symptoms than those taking Rebif
- People taking Rebif had a greater number of injection-site reactions, elevated liver enzymes, and decreased white blood cell counts

Please see Rebif Prescribing Information and Medication Guide included in the pocket and important safety information on pages 14–17.

More than **123,000** people like you have already chosen Rebif® (interferon beta-1a) to treat their relapsing MS. Here are **6 reasons** Rebif may be right for you, too.

19 years of clinical trial and patient experience supports the safety profile

3 treatment goals met

3 injection options and 2 dosing options to choose from

2 ways it is proven more effective than Avonex: percentage of patients relapse-free and new or enlarging active T2 brain lesions*

\$0 co-pay (for those eligible†)

1-on-1 support

The exact correlation between MRI findings and the current or future clinical trial status of patients, including disability progression, is unknown.

Before you choose a treatment, you can count on MS LifeLines® to help. Call us at **1-877-447-3243** to ask questions and talk to someone who understands MS. We're here for you.

To hear why some people like you chose Rebif, listen to their stories at **rebif.com/msvideos**.

***E**Vidence of Interferon **D**ose-response: **E**uropean **N**orth American **C**omparative **E**fficacy (**EVIDENCE**) was a head-to-head trial that compared Rebif with Avonex over an average of 64 weeks. Rebif 44 mcg was given to 339 people 3 times a week just under the skin. Avonex 30 mcg was given to 338 people once a week into the muscle.

† This program is open to US residents who are starting Rebif therapy or presently taking Rebif. Some limitations are required by law: patients covered by federal and state health care programs are not eligible for assistance.

19

years of clinical trial
and patient experience
supports the safety profile



Important safety information

Potential serious side effects include liver problems with severe liver injury possible, depression, suicidal ideation, suicide attempts, risk to pregnancy, allergic reactions, and injection-site problems with a chance of infection or severe skin damage.

Please see Rebif® (interferon beta-1a) Prescribing Information and Medication Guide included in the pocket and important safety information on pages 14–17.

You want to trust the medications you take. Find comfort in knowing that Rebif® (interferon beta-1a) has a well-established safety profile.

The people of MS LifeLines® also have years of experience you can count on. If you have questions about Rebif or MS, don't hesitate to give our nurse team a toll-free call at **1-877-447-3243**. Every question you have is important to us.

A well-established safety profile



“There are a lot of reasons why I chose Rebif. One of them is its safety profile.”

Jordan S.

MS LifeLines Ambassador,
living with relapsing MS

Take a minute to learn more about Rebif's efficacy and safety profile at **rebif.com/safety**.

*Common adverse events have been consistent across clinical trials.

MS LifeLines Ambassadors are sponsored by EMD Serono, Inc. and Pfizer Inc.

3

injection options and 2 dosing options to choose from

If you have any of the following conditions or serious medical problems, you should tell your doctor before taking Rebif® (interferon beta-1a):

- Depression (a sinking feeling or sadness), anxiety (feeling uneasy or fearful for no reason), or trouble sleeping
- Liver diseases
- Problems with your thyroid gland
- Blood problems, such as bleeding or bruising easily, and anemia (low red blood cells) or low white blood cells
- Epilepsy
- Are planning to become pregnant

Please see Rebif Prescribing Information and Medication Guide included in the pocket and important safety information on pages 14–17. For complete injection instructions, please see the Instructions for Use that comes with your Rebif® Rebidose® (interferon beta-1a) autoinjector.

Choose an injection option that's right for you:

- Rebif® Rebidose® (interferon beta-1a)
- Rebiject II® autoinjector
- Prefilled syringe

Rebif® (interferon beta-1a) gives you and your doctor 2 dosing options:

- 44 mcg
- 22 mcg

Rebif Rebidose

- No assembly
- Portable
- Needle stays covered

(Not actual size)



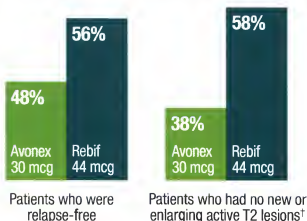
2

ways Rebif® (interferon beta-1a) was proven more effective than Avonex® (interferon beta-1a): percentage of patients relapse-free and active T2 brain lesions

Please see Rebif Prescribing Information and Medication Guide included in the pocket and important safety information on pages 14–17.

A head-to-head clinical study—EVIDENCE trial*—showed there were 2 important ways Rebif® (interferon beta-1a) was proven more effective than Avonex: percentage of patients relapse-free and reducing MRI activity over an average of 64 weeks.†

More patients relapse-free and with fewer active brain lesions versus Avonex



The exact correlation between MRI findings and the current or future clinical status of patients, including disability progression, is unknown.

In the study, side effects between Rebif and Avonex were generally similar. People taking Avonex had more flu-like symptoms than those taking Rebif. People taking Rebif had a greater number of injection-site reactions, elevated liver enzymes, and decreased white blood cell counts.

*Evidence of Interferon Dose-response: European North American Comparative Efficacy.

†New or enlarging lesions detected with PD/T2-weighted MRI.

\$

0

co-pay
for those eligible*



Visit **rebif.com/copay** for more information to help you decide if Rebif® (interferon beta-1a) is right for your relapsing MS. You can also call MS LifeLines® at **1-877-447-3243** to learn more. We're here to help.

Please see Rebif Prescribing Information and Medication Guide included in the pocket and important safety information on pages 14–17.

Your co-pay should matter when you're considering your treatment options.

That's why Rebif® (interferon beta-1a) offers you a \$0 co-pay, if you're eligible*, through the MS LifeLines Access Made Simple program.

Even if you're not eligible or don't have insurance, we may be able to help. We can work with you to help find a way to make Rebif more affordable.

Simply call us at **1-877-447-3243**. One of our Financial Support Specialists will be happy to help.

Find out more about how we can help make treatment affordable at **rebif.com**.

"I lost my job and my insurance, so it was really stressful. I called MS LifeLines and they covered my therapy until we were back on our feet. It was really simple."

Sarah H.

MS LifeLines Ambassador,
living with relapsing MS

*This program is open to US residents who are starting Rebif therapy or presently taking Rebif. Some limitations are required by law: patients covered by federal and state health care programs are not eligible for assistance.

Indication

Rebif® (interferon beta-1a) is used to treat relapsing forms of MS to decrease the frequency of relapses and delay the occurrence of some of the physical disability that is common in people with MS. Rebif is not approved for treatment of chronic progressive MS.

Important safety information

What is the most important information I should know about Rebif?

Rebif will not cure multiple sclerosis (MS) but it has been shown to decrease the number of flare-ups and slow the occurrence of some of the physical disability that is common in people with MS. Rebif can cause serious side effects, so before you start taking Rebif, you should talk with your doctor about the possible benefits of Rebif and its possible side effects to decide if Rebif is right for you. Potential serious side effects include:

- **Depression.** Some patients treated with interferons, including Rebif, have become seriously depressed (feeling sad). Some patients have thought about killing themselves and a few have committed suicide. Depression (a sinking of spirits or sadness) is not uncommon in people with multiple sclerosis. However, if you are feeling noticeably sadder or helpless, or feel like hurting yourself or others, you should tell a family member or friend right away and call your doctor as soon as possible. Your doctor may ask that you stop using Rebif. You should also tell your doctor if you have ever had any mental illness, including depression, and if you take any medications for depression

- **Liver problems.** Your liver may be affected by taking Rebif® (interferon beta-1a) and a few patients have developed severe liver injury. Your health care provider may ask you to have regular blood tests to make sure that your liver is working properly. If your skin or the whites of your eyes become yellow or if you are bruising easily you should call your doctor right away
- **Risk to pregnancy.** If you become pregnant while taking Rebif you should call your doctor right away. Rebif may cause you to lose your baby (miscarry) or may cause harm to your unborn child. You and your doctor will need to decide whether the potential benefit of taking Rebif is greater than the risks are to your unborn child
- **Allergic reactions.** Some patients taking Rebif have had severe allergic reactions leading to difficulty breathing and loss of consciousness. Allergic reactions can happen after your first dose or may not happen until after you have taken Rebif many times. Less severe allergic reactions, such as itching, flushing or skin bumps, can also happen at any time. If you think you are having an allergic reaction, stop using Rebif immediately and call your doctor
- **Injection-site problems.** Rebif may cause redness, pain or swelling at the place where an injection was given. Some patients have developed skin infections or areas of severe skin damage (necrosis) requiring treatment by a doctor. If one of your injection sites becomes swollen and painful or the area looks infected and it doesn't heal within a few days, you should call your doctor. For more information, please see Medication Guide

Important safety information

Who should not take

Rebif® (interferon beta-1a)?

Do not take Rebif if you:

- Have had an allergic reaction, such as difficulty breathing, flushing, or hives, to another interferon beta or to human albumin

If you have any of the following conditions or serious medical problems, you should tell your doctor before taking Rebif:

- Depression (a sinking feeling or sadness), anxiety (feeling uneasy or fearful for no reason), or trouble sleeping
- Liver diseases
- Problems with your thyroid gland
- Blood problems, such as bleeding or bruising easily, and anemia (low red blood cells) or low white blood cells
- Epilepsy
- Are planning to become pregnant

Tell your doctor about all medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements. Rebif and other medicines may affect each other, causing serious side effects. Talk to your doctor before you take any new medicines.

What are the possible side effects of Rebif?

- **Flu-like symptoms** (fever, chills, sweating, muscle aches and tiredness)
- **Skin reactions.** Soreness, redness, pain, bruising, or swelling may occur at the place of injection

- **Depression and anxiety.** Some patients taking interferons have become very depressed and/or anxious
- **Liver problems**
- **Abdominal pain**
- **Blood problems.** You may have a drop in the levels of infection-fighting blood cells, red blood cells or cells that help to form blood clots. If the drop in levels is severe, it can lessen your ability to fight infections, make you feel tired or sluggish or cause you to bruise or bleed easily
- **Thyroid problems.** Your thyroid function may change. Symptoms of changes in the function of your thyroid include feeling cold or hot all the time, change in your weight (gain or loss) without a change in your diet or amount of exercise you are getting
- **Severe allergic reactions.** Allergic reactions are rare and may be associated with difficulty in breathing and loss of consciousness, which require immediate medical attention

Let your doctor know if you have any of these symptoms or feel sad, tired, hot or cold, or experience hives, rashes, bruising, yellowing of the skin, or a change in body weight (gain or loss).

Refer to the Instructions for Use that comes with the Rebif® Rebidose® (interferon beta-1a) autoinjector.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

 **Rebif®**
(interferon beta-1a)
subcutaneous injection

Learn more about
strength in numbers at
rebif.com



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Table 3 enumerates adverse events and laboratory abnormalities that occurred at an incidence that was at least 2% more in either Rebi®-treated group than was observed in the placebo group.

Table 3. Adverse Reactions and Laboratory Abnormalities in Study 1

| Body System Preferred Term | Placebo n=117 | Rebi® 44 mcg t/w (n=189) | Rebi® 22 mcg t/w (n=184) |
|--|------------------|-----------------------------------|-----------------------------------|
| BODY AS A WHOLE | | | |
| Influenza-like symptoms | 51% | 56% | 59% |
| Headache | 63% | 65% | 70% |
| Fatigue | 38% | 33% | 41% |
| Fever | 16% | 25% | 28% |
| Rhinos | 5% | 6% | 13% |
| Chest Pain | 6% | 5% | 4% |
| Malaise | 1% | 4% | 5% |
| INJECTION SITE DISORDERS | | | |
| Injection Site Reaction | 39% | 89% | 92% |
| Injection Site Necrosis | 0% | 1% | 3% |
| CENTRAL AND PERIPHERAL NERVOUS SYSTEM DISORDERS | | | |
| Hypertonia | 5% | 7% | 6% |
| Lymphedema Abnormal | 2% | 5% | 4% |
| Convulsions | 2% | 5% | 4% |
| ENDOCRINE DISORDERS | | | |
| Thyroid Disorder | 2% | 4% | 6% |
| GASTROINTESTINAL SYSTEM DISORDERS | | | |
| Abdominal Pain | 17% | 22% | 20% |
| Dry Mouth | 1% | 1% | 5% |
| LIVER AND BILIARY SYSTEM DISORDERS | | | |
| SGOT Increased | 4% | 20% | 27% |
| Hepatic Function Abnormal | 2% | 4% | 9% |
| Bilirubinemia | 1% | 3% | 2% |
| MUSCULO-SKELETAL SYSTEM DISORDERS | | | |
| Myalgia | 20% | 25% | 25% |
| Back Pain | 20% | 23% | 25% |
| Skeletal Pain | 10% | 15% | 10% |
| HEMATOLOGIC DISORDERS | | | |
| Leukopenia | 14% | 28% | 36% |
| Lymphadenopathy | 8% | 11% | 12% |
| Thrombocytopenia | 2% | 2% | 8% |
| Anemia | 3% | 3% | 5% |
| PSYCHIATRIC DISORDERS | | | |
| Somnolence | 1% | 4% | 5% |
| SKIN DISORDERS | | | |
| Rash Erythematous | 3% | 7% | 5% |
| Rash Macule Papular | 2% | 5% | 4% |
| URINARY SYSTEM DISORDERS | | | |
| Micturition Frequency | 2% | 2% | 7% |
| Urinary Incontinence | 2% | 4% | 2% |
| VISION DISORDERS | | | |
| Vision Abnormal | 7% | 7% | 13% |
| Xerophthalmia | 0% | 3% | 1% |

The adverse reactions were generally similar in Studies 1 and 2, taking into account the disparity in study durations.

Postmarketing Experience

In addition to adverse events reported from clinical trials, the following events have been reported during postmarketing use of Rebi®. Because these reactions were reported voluntarily from a population of uncertain size, the frequency or a causal relationship to Rebi® cannot be reliably determined.

Autoimmune Disorders: Drug-induced lupus erythematosus, autoimmune hepatitis.

Blood and Lymphatic System Disorders: Thrombotic thrombocytopenic purpura/hemolytic uremic syndrome (TTP/HUS), pancytopenia.

Eye Disorders: Retinal vascular disorders (i.e. retinopathy, cotton wool spots or obstruction of retinal artery or vein).

General Disorders and Administration Site Conditions: Increased sweating.

Hepatobiliary Disorders: Rare cases of severe liver dysfunction, including hepatic failure requiring liver transplantation (see **WARNINGS:** Hepatic Injury).

Nervous System: Seizures (see **PRECAUTIONS:** General). Transient neurological symptoms (i.e., hypoesthesia, muscle spasm, paresthesia, difficulty walking, musculoskeletal stiffness) that mimic MS exacerbations of limited duration, temporally related to the injections and most prominent at the initiation of therapy. In some cases, these symptoms were associated with flu-like syndrome.

Psychiatric Disorders: Suicide (see **WARNINGS:** Depression and Suicide).

Skin and Subcutaneous Tissue Disorders: Injection site abscesses, injection site infections, including cellulitis are necrosis requiring debridement, systemic antibiotic treatment and/or grafting, erythema multiforme, and Stevens-Johnson syndrome.

Immunogenicity

As with all therapeutic proteins, there is a potential for immunogenicity. In Study 1, the presence of neutralizing antibodies (NAb) to Rebi® was determined by collecting and analyzing serum pre-study (day 1) at 6 month time intervals during the 2 years of the clinical trial. Serum NAb were detected in 59/189 (31%) and 45/184 (24%) of Rebi®-treated patients at the 22 mcg and 44 mcg three times per week doses, respectively, at one or more times during the study. The clinical significance of the presence of NAb to Rebi® is unknown.

The data reflect the percentage of patients whose test results were considered positive for antibodies to Rebi® using an antiviral cytotoxic effect assay, and are highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of NAb positivity may also be influenced by several factors including sample handling, timing of sample collection, concomitant medications and underlying disease. For these reasons, comparison of the incidence of antibodies to Rebi® with the incidence of antibodies to other products may be misleading.

Anaphylaxis and other allergic reactions have been observed with the use of Rebi® (see **WARNINGS:** Anaphylaxis).

DRUG ABUSE AND DEPENDENCE

There is no evidence that abuse or dependence occurs with Rebi® therapy. However, the risk of dependence has not been systematically evaluated.

OVERDOSAGE

Safety doses higher than 44 mcg sc three times per week has not been adequately evaluated. The maximum amount of Rebi® that can be safely administered has not been determined.

DOSEAGE AND ADMINISTRATION

Dosages of Rebi® shown to be safe and effective are 22 mcg and 44 mcg injected subcutaneously three times per week. Rebi® should be administered, if possible, at the same time (preferably in the late afternoon or evening) on the same three days (e.g., Monday, Wednesday, and Friday) at least 48 hours apart each week (see **CLINICAL STUDIES**). Generally, patients should be started at 20% of the prescribed dose three times per week and increased over a 4-week period to the targeted dose, either 22 mcg three times per week (see Table 4) or 44 mcg three times per week (see Table 5). Patients prescribed a targeted dose of 22 mcg three times per week should use the pre-filled syringes for titration. Following the administration of each dose, any residual product remaining in the syringe should be discarded in a safe and proper manner.

A. Titration Pack containing 6 doses of 8.8 mcg (0.2 mL) and 6 doses of 22 mcg (0.5 mL) is available for use during the titration period in both Rebi® pre-filled syringes and Rebi® Rebidose® autoinjectors.

Table 4: Titration Schedule for a 22 mcg Prescribed Dose*

| Week of Use | Dose | Syringe to Use | Amount of syringe |
|------------------|---------|--------------------------------|-------------------------------------|
| Week 1 Titration | 4.4 mcg | 8.8 mcg syringe | Use half of syringe |
| Week 2 Titration | 4.4 mcg | 8.8 mcg syringe | Use half of syringe |
| Week 3 Titration | 11 mcg | 22 mcg syringe | Use half of syringe |
| Week 4 Titration | 11 mcg | 22 mcg syringe | Use half of syringe |
| Week 5 and on | 22 mcg | 22 mcg syringe or autoinjector | Use full of syringe or autoinjector |

* Only pre-filled syringes can be used to titrate to 22 mcg Prescribed Dose

Table 5: Titration Schedule for a 44 mcg Prescribed Dose**

| Week of Use | Dose | Syringe or Autoinjector to Use | Amount of syringe or autoinjector |
|------------------|---------|---------------------------------|-----------------------------------|
| Week 1 Titration | 8.8 mcg | 8.8 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 2 Titration | 8.8 mcg | 8.8 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 3 Titration | 22 mcg | 22 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 4 Titration | 22 mcg | 22 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 5 and on | 44 mcg | 44 mcg syringe or autoinjector | Use full syringe or autoinjector |

** Pre-filled syringes or autoinjectors can be used to titrate to 44 mcg Prescribed Dose

Leukopenia or elevated liver function tests may necessitate dose reduction or discontinuation of Rebi® administration until toxicity is resolved (see **WARNINGS:** Hematologic and Adverse Reactions).

Rebi® is intended for use under the guidance and supervision of a physician. It is recommended that physicians or qualified medical personnel train patients in the proper technique for self-administering subcutaneous (sc) injections using the pre-filled syringe or injection device approved for use with Rebi® injection depth of the Rebi® Rebidose® autoinjector is fixed at 8 mm; the trained care provider should determine the injection technique. Patients should be advised to rotate sites for sc injections (see **PRECAUTIONS:** Information for Patients). Concurrent use of analgesics and/or antipyretics may help ameliorate flu-like symptoms on treatment days. Rebi® should be inspected visually for particulate matter and discoloration prior to administration.

Stability and Storage

Rebi® should be stored refrigerated between 36°F to 46°F (2°C to 8°C). DO NOT FREEZE: if a refrigerator is not available, Rebi® may be stored between 36°F to 77°F (2°C to 25°C) for up to 30 days and away from heat and light.

Do not use beyond the expiration date printed on packages. Rebi® contains no preservatives. Each pre-filled syringe and Rebi® Rebidose® autoinjector is intended for single use. Unused portions should be discarded.

HOW SUPPLIED

Rebi® is supplied as a sterile, preservative-free solution packaged in two different delivery options:

- **Pre-filled Syringes:** graduated, ready to use in 0.2 mL and 0.5 mL with 29-gauge 0.5 inch needle for subcutaneous injections.
- **Rebi® Rebidose® Autoinjectors:** pre-assembled, ready to use in 0.2 mL or 0.5 mL, with 29-gauge, 0.5 inch needle for subcutaneous injections.

The following package presentations are available:

Pre-filled Syringes

Rebi® (interferon beta-1a) Titration Pack

NDC 44087-8822-1

• Six Rebi® 8.8 mcg pre-filled syringes and Six Rebi® 22 mcg pre-filled syringes

• Rebi® (interferon beta-1a) 22 mcg Pre-filled syringe

• Twelve Rebi® 22 mcg pre-filled syringes, NDC 44087-0022-3

• Rebi® (interferon beta-1a) 44 mcg Pre-filled syringe

• Twelve Rebi® 44 mcg pre-filled syringes, NDC 44087-0044-3

• Rebi® Rebidose® Autoinjectors:

Rebi® (interferon beta-1a) Titration Pack

NDC 44087-0188-1

• Six Rebi® 8.8 mcg autoinjectors with lime-green injector buttons and Six Rebi® 22 mcg with yellow injector buttons.

Rebi® (interferon beta-1a) 22 mcg Rebi® Rebidose® Autoinjector

• Twelve Rebi® 22 mcg autoinjectors with yellow injector buttons, NDC 44087-3322-1

Rebi® (interferon beta-1a) 44 mcg Rebi® Rebidose® Autoinjector

• Twelve Rebi® 44 mcg autoinjectors with teal-green injector buttons, NDC 44087-3344-1

Rx only

References

1. PRISMS Study Group. Randomized double-blind placebo-controlled study of interferon B-1a in relapsing/remitting multiple sclerosis. *Lancet* 1998; 352: 1498-1504.
2. Panitch H, Goodin DS, Francis G, et al. Randomized, comparative study of interferon B-1a treatment regimens in MS. *THE EVIDENCE Trial*. *Neurology* 2002 59: 1496-1506.

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EMD Serono, Inc. Rockland, MA 02370

U.S. License # 1773

Marketed by:

EMD Serono, Inc. Rockland, MA 02370

Pfizer Inc. New York, NY 10017

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Medication Guide

Rebif® (Re-bif)

interferon beta-1a
(in-ter-feer-on beta-one-a)

Please read this leaflet carefully before you start to use Rebif® and each time your prescription is refilled since there may be new information. The information in this medication guide does not take the place of regularly talking with your doctor or health care provider.

What is the most important information I should know about Rebif®?

Rebif® will not cure multiple sclerosis (MS) but it has been shown to decrease the number of flare-ups and slow the occurrence of some of the physical disability that is common in people with MS. Rebif® can cause serious side effects, so before you start taking Rebif®, you should talk with your doctor about the possible benefits of Rebif® and its possible side effects to decide if Rebif® is right for you. Potential serious side effects include:

- **Depression.** Some patients treated with interferons, including Rebif®, have become seriously depressed (feeling sad). Some patients have thought about killing themselves and a few have committed suicide. Depression (a sinking of spirits or sadness) is not uncommon in people with multiple sclerosis. However, if you are feeling noticeably sadder or helpless, or feel like hurting yourself or others, you should tell a family member or friend right away and call your doctor as soon as possible. Your doctor may ask that you stop using Rebif®. You should also tell your doctor if you have ever had any mental illness, including depression, and if you take any medications for depression.

- **Liver problems.** Your liver may be affected by taking Rebif® and a few patients have developed severe liver injury. Your health care provider may ask you to have regular blood tests to make sure that your liver is working properly. If your skin or the whites of your eyes become yellow or if you are bruising easily you should call your doctor right away.

- **Risk to pregnancy.** If you become pregnant while taking Rebif® you should call your doctor right away. Rebif® may cause you to lose your baby (miscarry) or may cause harm to your unborn child. You and your doctor will need to decide whether the potential benefit of taking Rebif® is greater than the risks are to your unborn child.

- **Allergic reactions.** Some patients taking Rebif® have had severe allergic reactions leading to difficulty breathing, and loss of consciousness. Allergic reactions can happen after your first dose or may not happen until after you have taken Rebif® many times. Less severe allergic reactions such as itching, flushing or skin bumps can also happen at any time. If you think you are having an allergic reaction, stop using Rebif® immediately and call your doctor.

- **Injection site problems.** Rebif® may cause redness, pain or swelling at the place where an injection was given. Some patients have developed skin infections in areas of severe skin damage (necrosis) requiring treatment by a doctor. If one of your injection sites becomes swollen and painful or the area looks infected and it doesn't heal within a few days, you should call your doctor.

What is Rebif®?

Rebif® is a type of protein called beta interferon that occurs naturally in the body. It is used to treat relapsing forms of multiple sclerosis. It will not cure your MS but may decrease the number of flare-ups of the disease and slow the occurrence of some of the physical disability that is common in people with MS. MS is a life-long disease that affects your nervous system by destroying the protective covering (myelin) that surrounds your nerve fibers. The way Rebif® works in MS is not known.

Who should not take Rebif®?

Do not take Rebif® if you:

- have had an allergic reaction such as difficulty breathing, flushing or hives to another interferon beta or to human albumin.

If you have any of the following conditions or serious medical problems, you should tell your doctor before taking Rebif®:

- Depression (a sinking feeling or sadness), anxiety (feeling nervous or fearful for no reason), or trouble sleeping
- Liver diseases
- Problems with your thyroid gland
- Blood problems such as bleeding or bruising easily and anemia (low red blood cells) or low white blood cells
- Epilepsy
- Are planning to become pregnant

Tell your doctor about all medicines you take, including prescription and non-prescription medicines, vitamins and herbal supplements. Rebif® and other medicines may affect each other causing serious side effects. Talk to your doctor before you take any new medicines.

How should I take Rebif®?

Rebif® is given by injection under the skin (subcutaneous injection) on the same

three days a week (for example, Monday, Wednesday and Friday). Your injections should be at least 48 hours apart so it is best to take them the same time each day. Your doctor will tell you what dose of Rebif® to use, and may change the dose based on how your body responds. You should not change the dose without talking with your doctor.

If you miss a dose, you should take your next dose as soon as you remember or are able to take it, then skip the following day. **Do not take Rebif® on two consecutive days.** You should return to your regular schedule the following week. If you accidentally take more than your prescribed dose, or take it on two consecutive days, call your doctor right away.

You should always follow your doctor's instructions and advice about how to take this medication. If your doctor feels that you, or a family member or friend may give you the injections then you and/or the other person should be trained by your doctor or health care provider in how to give an injection. Do not try to give yourself or have another person give you injections at home until you (or both of you) understand and are comfortable with how to prepare your dose and give the injections.

Always use a new, unopened, pre-filled syringe of Rebif® or Rebidos® autoinjector for each injection. Do not reuse pre-filled syringes or Rebidos® autoinjectors.

It is important that you change your injection site each time Rebif® is injected. This will lessen the chance of your having a serious skin reaction at the spot where you inject Rebif®. You should always avoid injecting Rebif® into an area of skin that is sore, reddened, infected or otherwise damaged.

At the end of this leaflet, there are detailed instructions on how to prepare and give an injection of Rebif® using a pre-filled syringe. For the Rebidos® autoinjector, refer to the Instructions for Use that comes with the Rebidos® autoinjector. You should become familiar with all instructions and follow your doctor's orders before injecting Rebif®.

What should I avoid while taking Rebif®?

- **Pregnancy.** You should avoid becoming pregnant while taking Rebif® until you have talked with your doctor. Rebif® can cause you to lose your baby (miscarry).
- **Breast feeding.** You should talk to your doctor if you are breast feeding an infant. It is not known if the interferon in Rebif® can be passed to an infant in mother's milk, and it is not known whether the drug could harm the infant if it is passed to an infant.

• Rebif® and other medicines may affect each other causing serious side effects. Talk to your doctor before you take any new medicines.

What are the possible side effects of Rebif®?

- **Flu-like symptoms.** Most patients have flu-like symptoms (fever, chills, sweating, muscle aches and tiredness). For many patients, these symptoms will lessen or go away over time. You should talk to your doctor about whether you should take an over the counter medication for pain or fever reduction before or after taking your dose of Rebif®.

- **Skin reactions.** Soreness, redness, pain, bruising or swelling may occur at the place of injection. See "What is the most important information I should know about Rebif®?"

- **Depression and anxiety.** Some patients taking interferons have become very depressed and or anxious. There have been patients taking interferons who have had thoughts about killing themselves. If you feel sad or hopeless you should tell a friend or family member right away and call your doctor immediately. See "What is the most important information I should know about Rebif®?"

- **Liver problems.** Your liver function may be affected. If you develop symptoms of changes in your liver, including yellowing of the skin and whites of the eyes and easy bruising, call your doctor immediately. See "What is the most important information I should know about Rebif®?"

- **Blood problems.** You may have a drop in the levels of infection-fighting blood cells, red blood cells or cells that help to form blood clots. If the drop in levels are severe, they can lessen your ability to fight infections, make you feel tired or sluggish or cause you to bruise or bleed easily.

- **Thyroid problems:** Your thyroid function may change. Symptoms of changes in the function of your thyroid include feeling cold or hot all the time, change in your weight (gain or loss) without a change in your diet or amount of exercise you are getting.

- **Allergic reactions:** Some patients have had hives, rash, skin bumps or itching while they were taking Rebif®. Other patients have had more serious allergic reactions such as difficulty breathing or feeling light-headed. You should tell your doctor if you think you are having an allergic reaction. See "What is the most important information I should know about Rebif®?"

Whether you experience any of these side effects or not, you and your doctor should periodically talk about your general health. Your doctor may want to monitor you more closely and ask you to have blood tests done more frequently.

Call your doctor for medical advice about side effects. You may report side effects to the FDA at 1-800-FDA-1088.

Storage Conditions

Rebif® is packaged in pre-filled syringes with needles already attached to the syringe and in pre-assembled, single-use autoinjectors, called Rebidos®, with needles already attached within the autoinjector.

Rebif® should be stored refrigerated between 36°F to 46°F (2°C to 8°C). **Do Not Freeze.** If a refrigerator is not available, Rebif® may be stored between 36°F to 77°F (2°C to 25°C) for up to 30 days and away from heat and light.

General Information About Prescription Medicines

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. This medication has been prescribed for your particular medical condition. Do not use it for another condition or give this drug to anyone else. If you have any questions you should speak with your doctor or health care provider. You may also ask your doctor or pharmacist for a copy of the information provided to them with the product.

Keep this and all drugs out of the reach of children.

Instructions for Preparing and Giving Yourself an Injection of Rebif® using a Rebidos® autoinjector

Refer to the Instructions for Use that comes with the Rebidos® autoinjector.

Instructions for Preparing and Giving Yourself an Injection of Rebif® using a pre-filled syringe

Before you begin, gather all of the supplies listed below:

- Rebif® pre-filled syringe or Rebidos® autoinjector.
- Alcohol swabs (wipes) or cotton balls and rubbing alcohol
- Small adhesive bandage strip (if desired)
- Puncture resistant safety container for disposal of used syringes
- Antibacterial soap
- An over-the-counter pain or fever reducing medication, if your doctor has recommended that you take this prior to, at the same time, or after you give yourself Rebif® to help minimize the fever, chills, sweating and muscle aches (flu-like symptoms) that may occur.

When first starting treatment with Rebif®, your doctor may prescribe either the 22 mcg or 44 mcg dose of Rebif®. You should gradually increase the dose over 4 weeks, starting at 20% of the prescribed dose for the first 2 weeks, half-dose for the second 2 weeks (weeks 3 and 4), and then the full dose prescribed by your doctor.

If your prescribed dose is 22 mcg dose of Rebif®, a Rebif® Titration Pack containing 6 pre-filled syringes with 8.8 mcg and 6 pre-filled syringes with 22 mcg should be prescribed to you for use during the 4 week titration period. Table 1 explains the amount to inject using the Rebif® Titration Pack syringes to gradually increase to 22 mcg.

Table 1: Titration Schedule for a 22 mcg Prescribed Dose*

| Week of Use | Syringe to Use | Amount of syringe |
|------------------|--------------------------------|----------------------------------|
| Week 1 Titration | 8.8 mcg syringe | Use half of syringe |
| Week 2 Titration | 8.8 mcg syringe | Use half of syringe |
| Week 3 Titration | 22 mcg syringe | Use half of syringe |
| Week 4 Titration | 22 mcg syringe | Use half of syringe |
| Week 5 and on | 22 mcg syringe or autoinjector | Use full syringe or autoinjector |

* Only pre-filled syringes can be used to titrate to 22 mcg Prescribed Dose

If your prescribed dose is 44 mcg, you may be prescribed either a Rebif® Titration Pack (described above) or Rebif® Rebidos® Titration Pack containing 6 autoinjectors with 8.8 mcg and 6 autoinjectors with 22 mcg for use during the 4 week titration period. Table 2 explains the amount to inject using the Rebif® Titration Pack or Rebif® Rebidos® Titration Pack to gradually increase to 44 mcg.

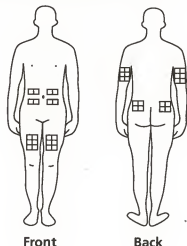
Table 2: Titration Schedule for a 44 mcg Prescribed Dose*

| Week of Use | Syringe or Autoinjector to Use | Amount of syringe or autoinjector |
|------------------|---------------------------------|-----------------------------------|
| Week 1 Titration | 8.8 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 2 Titration | 8.8 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 3 Titration | 22 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 4 Titration | 22 mcg syringe or autoinjector | Use full syringe or autoinjector |
| Week 5 and on | 44 mcg syringe or autoinjector | Use full syringe or autoinjector |

** Pre-filled syringes or autoinjectors can be used to titrate to 44 mcg Prescribed Dose

Preparing for an injection:

- Check the expiration date; **do not use if the medication is expired**. The expiration date is printed on the syringe, plastic syringe packaging and carton.
- You may wish to remove your medication from the refrigerator at least 30 minutes prior to use so it can warm to room temperature. Do not heat or microwave the medication.
- Be sure that the dose, either, 8.8 mcg, 22 mcg or 44 mcg, described on the carton is the same as the dose prescribed by your doctor.
- Remove the Rebi® syringe or autoinjector from the plastic packaging. Keep the needle capped.
- Examine the contents of the syringe carefully. The liquid should be clear to slightly yellow. **Do not use if the liquid is cloudy, discolored or contains particles.**
- Choose only one site for injection. The best sites for giving yourself an injection are those areas with a layer of fat between the skin and muscle, like your thigh, the outer surface of your upper arm, your stomach or buttocks. Do not use the area near your waistline or within 2 inches of your navel. If you are very thin, use only the thigh or outer surface of the arm for injection. Use a different site each time you inject (thigh, hip, stomach or upper arm, see Figure below). Do not inject Rebi® into an area of your body where the skin is irritated, reddened, bruised, infected or abnormal in any way.
- Keep a record of the date and location of each injection.
- Wash your hands thoroughly with antibacterial soap before preparing to inject the medication.
- Clean the injection site with an alcohol swab (wipe) or cotton ball with rubbing alcohol using a circular motion. To avoid stinging, you should let your skin dry before you inject Rebi®.



Giving yourself an injection of Rebi® using a pre-filled syringe

- Remove the needle cap from the syringe needle.
- If your doctor has told you to use less than the full 0.5 mL dose, slowly push the plunger in until the amount of medication left in the syringe is the amount your doctor told you to use.

- Use your thumb and forefinger to pinch a pad of skin surrounding the cleaned injection site (see adjacent figure). Hold the syringe like a pencil with your other hand.



- While still pinching the skin, swiftly insert the needle like a dart at about a 90 degree angle (just under the skin) into the pad of tissue as shown.



- After the needle is in, remove the hand that you used to pinch your skin and inject the drug using a slow, steady push on the plunger until all the medication is injected and the syringe is empty.



- Withdraw the needle and apply gentle pressure to the injection site with a dry cotton ball or sterile gauze. Applying a cold compress or ice pack to the injection site after injection may help reduce local skin reactions.
- Put a small adhesive bandage strip over the injection site, if desired.

- After 2 hours, check the injection site for redness, swelling, or tenderness. If you have a skin reaction and it doesn't clear up in a few days, contact your doctor or nurse.

Disposing of Needles, Syringes and Rebidose® autoinjectors

There are special state or local laws for properly disposing used needles, syringes and Rebidose® autoinjectors. Your doctor or health care provider will instruct you on the discarding procedure and may provide you with a FDA-cleared disposal container called a Sharps container.

Put your used needles, syringes, or Rebidose® autoinjectors in a Sharps container right away after use. Do not throw away (dispose of) any sharps in your household trash.

If you do not have a FDA-cleared sharps disposal container, you may use a household container that is:

- made of a heavy-duty plastic,
- can be closed with a tight-fitting, puncture-resistant lid, without sharps being able to come out,

- upright and stable during use,
- leak-resistant, and
- properly labeled to warn of hazardous waste inside the container.

When your sharps disposal container is almost full, you will need to follow your community guidelines for the right way to dispose of your sharps disposal container. There may be state or local laws about how you should throw away used needles and syringes. For more information about safe sharps disposal, and for specific information about sharps disposal in the state that you live in, go to the FDA's website at: <http://www.fda.gov/safesharpsdisposal>

Do not dispose of your used sharps disposal container in your household trash unless your community guidelines permit this. Do not recycle your used sharps disposal container.

Always keep your disposal container out of the reach of children.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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